

Name: \_\_\_\_\_

**pb1103: Factoring when  $a = \text{prime}$  (v29)**

1. Factor the expression  $3x^2 + 11x + 6$

$$(3x + 2)(x + 3)$$

2. Factor the expression  $11x^2 - 30x - 9$

$$(11x + 3)(x - 3)$$

3. Factor the expression  $11x^2 - 39x + 18$

$$(11x - 6)(x - 3)$$

4. Factor the expression  $7x^2 + 22x - 24$

$$(7x - 6)(x + 4)$$

5. Factor the expression  $7x^2 - 41x + 30$

$$(7x - 6)(x - 5)$$

6. Factor the expression  $7x^2 + 11x + 4$

$$(7x + 4)(x + 1)$$

7. Factor the expression  $11x^2 - 80x + 21$

$$(11x - 3)(x - 7)$$

8. Factor the expression  $3x^2 + 5x - 12$

$$(3x - 4)(x + 3)$$

9. Factor the expression  $11x^2 + 85x + 56$

$$(11x + 8)(x + 7)$$

10. Factor the expression  $3x^2 + 19x + 28$

$$(3x + 7)(x + 4)$$